



Qt 6.8 SBOM

Software Bill of Materials

06.09.2024

About myself

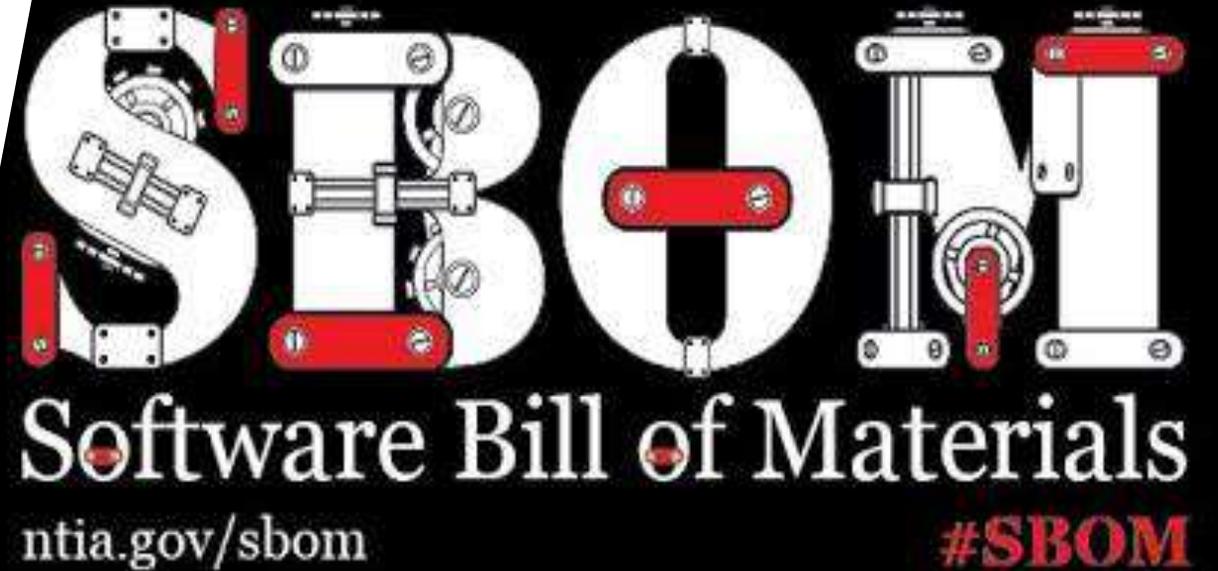
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Software Engineer from Qt Berlin Office

Maintainer of Qt Build System

Agenda

- What is an SBOM
- Why should we care
- Qt Maintainers
- Tools
- Future work

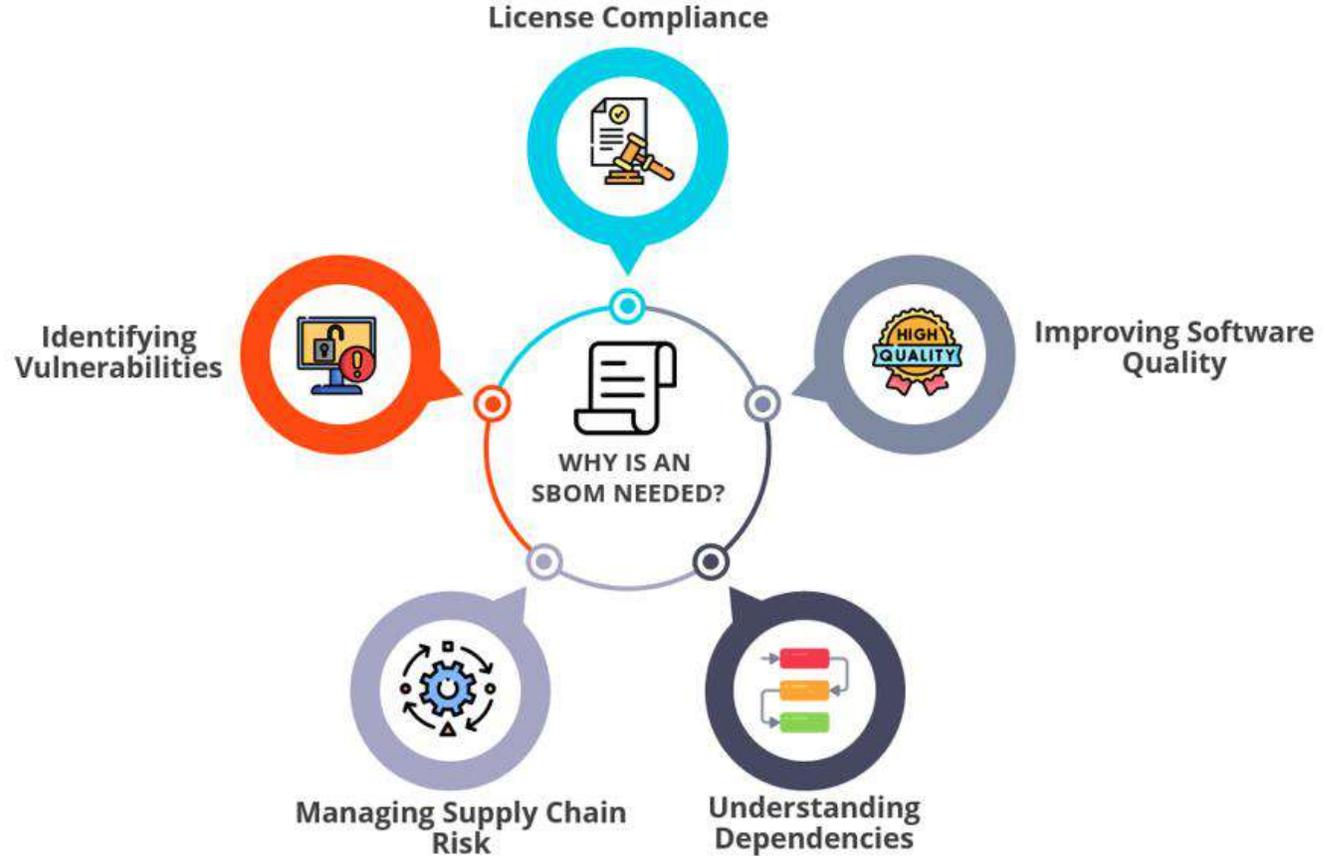


What is an SBOM?

┌ A Software Bill of Materials (SBOM) is a formal record containing the details and supply chain relationships of various components used in building software."

Why should we care?

Why should we care



But why now?



Obligations



Manufacturer's obligations



Cybersecurity is taken into account in **planning, design, development, production, delivery** and **maintenance** phase;



All **cybersecurity risks** are documented;



Manufacturers will have to **report actively exploited vulnerabilities and incidents**;



Once sold, manufacturers must ensure that for the **expected product lifetime** or for a period of five years (whichever is the shorter), **vulnerabilities are handled effectively**;



Clear and understandable instructions for the use of products with digital elements;



Security updates to be made **available for at least five years**.



What kinds of SBOMs are there?

SBOM types

- › Design SBOM (from a design spec or an RFP)
- › Source SBOM (from Software Composition Analysis)
- › Build SBOM (generated as part of a build process)
- › Analyzed SBOM (from scanning artifacts using 3rd party tools)
- › Deployed SBOM (from recording installed software on a system)
- › Runtime SBOM (collected by 3rd party tooling live on a system)



SBOM types

Essential for CRA

- › Design SBOM (from a design spec or an RFP)
- › Source SBOM (from Software Composition Analysis) <- ongoing work
- › Build SBOM (generated as part of a build process) <- generated by Qt
- › Analyzed SBOM (from scanning artifacts using 3rd party tools)
- › Deployed SBOM (from recording installed software on a system)
- › Runtime SBOM (collected by 3rd party tooling live on a system)



SBOM formats

> SPDX

- > <https://spdx.dev/>
- > Maintained by Linux Foundation
- > Latest version v3.0
- > Most popular **v2.3** <- **Generated by Qt**

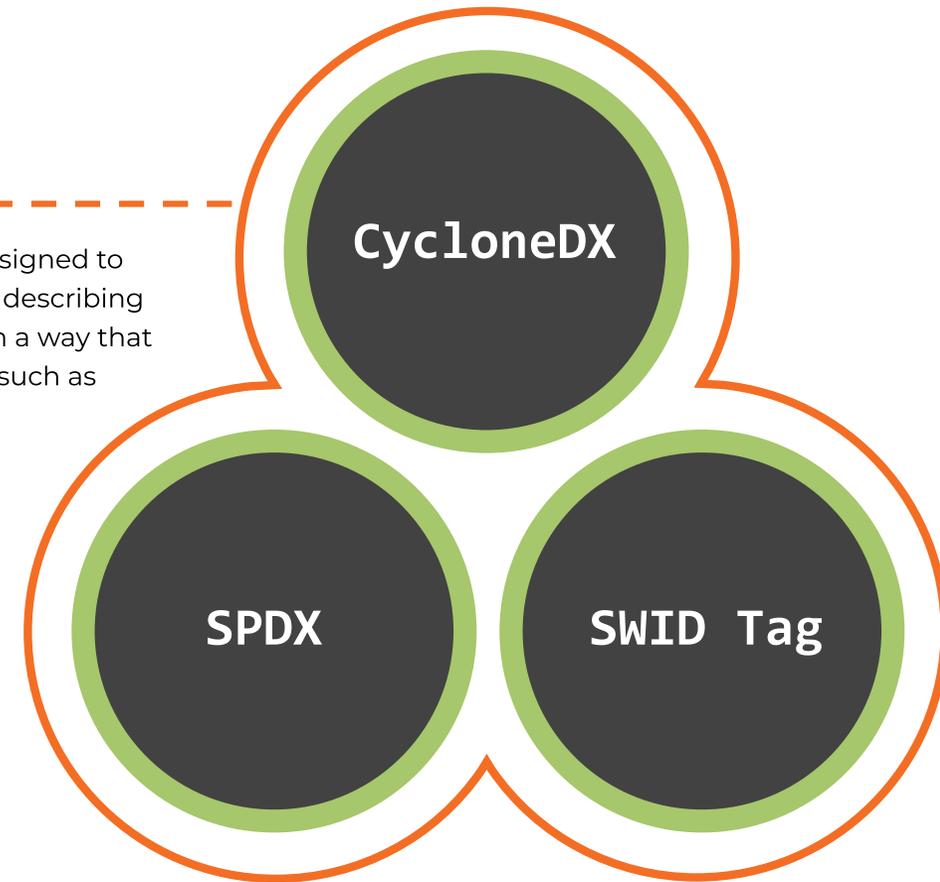
> CycloneDX

- > <https://cyclonedx.org/>
- > Maintained by OWASP
- > Latest version v1.6

> SWID by ISO / IEC

SBOM Formats

Machine-readable schema designed to provide a common format for describing the composition of software in a way that is consumable by other tools, such as vulnerability scanners.



Build SBOM



Build Build SBOM

- › Generated by Qt's build system
- › `configure --sbom`
- › `cmake --install . --component sbom`
- › Installs one `.spdx` file per qt repository

- › `$ ls -alh installed/sbom`
- › total 3840
- › `drwxr-xr-x 4 alex staff 128B Sep 3 17:33 .`
- › `drwxr-xr-x 22 alex staff 704B Aug 23 12:03 ..`
- › `-rw-r--r-- 1 alex staff 721K Sep 3 17:33 qtbase-6.9.0.spdx`
- › `-rw-r--r-- 1 alex staff 1.2M Sep 3 17:33 qtbase-6.9.0.spdx.json`

Sample Build SBOM snippet from qtbase

- › PackageName: Gui
- › SPDXID: SPDXRef-Package-qtbase-qt-module-Gui
- › PackageDownloadLocation: git://code.qt.io/qt/qtbase.git@ca10f27ef6efb904a6b3392255c380e4e27ccef0
- › PackageVersion: 6.9.0
- › PackageSupplier: Organization: TheQtCompany
- › PackageLicenseConcluded: LicenseRef-Qt-Commercial OR LGPL-3.0-only OR GPL-2.0-only OR GPL-3.0-only
- › ExternalRef: PACKAGE-MANAGER purl pkg:github/qt/qtbase@ca10f27ef6e?library_name=Gui#src/gui
- › ExternalRef: PACKAGE-MANAGER purl pkg:generic/TheQtCompany/qtbase-Gui@ca10f27ef6e?vcs_url=https://code.qt.io/qt/qtbase.git@ca10f27ef6e&library_name=Gui#src/gui
- › PackageCopyrightText: <text>Copyright (C) 2024 The Qt Company Ltd.</text>
- › PrimaryPackagePurpose: LIBRARY
- › ExternalRef: SECURITY cpe23Type cpe:2.3:a:qt:qtbase:6.9.0:*:*:*:*:*
- › ExternalRef: SECURITY cpe23Type cpe:2.3:a:qt:qt:6.9.0:*:*:*:*:*
- › Relationship: SPDXRef-Package-qtbase-qt-module-Gui DEPENDS_ON SPDXRef-Package-qtbase-qt-module-Core
- › Relationship: SPDXRef-Package-qtbase-qt-module-Gui DEPENDS_ON SPDXRef-Package-qtbase-qt-bundled-3rdparty-module-BundledLibpng
- › Relationship: SPDXRef-Package-qtbase-qt-module-Gui DEPENDS_ON SPDXRef-Package-qtbase-qt-bundled-3rdparty-module-BundledHarfbuzz
- › Relationship: SPDXRef-Package-qtbase-qt-module-Gui DEPENDS_ON SPDXRef-Package-qtbase-qt-3rdparty-sources-Gui-Attribution-VulkanMemoryAllocator
- › Relationship: SPDXRef-Package-qtbase-qt-module-Gui DEPENDS_ON SPDXRef-Package-qtbase-qt-3rdparty-sources-Gui-Attribution-icc-sRGB-color-profile
- › Relationship: SPDXRef-Package-qtbase-qt-module-Gui DEPENDS_ON SPDXRef-Package-qtbase-qt-3rdparty-sources-Gui-Attribution-md4c
- › Relationship: SPDXRef-Package-qtbase-qt-module-Gui DEPENDS_ON SPDXRef-Package-qtbase-qt-3rdparty-sources-Gui-Attribution-zlib
- › Relationship: SPDXRef-Package-qtbase CONTAINS SPDXRef-Package-qtbase-qt-module-Gui

Sample 3rd party snippet

- › PackageName: BundledZLIB
- › SPDXID: SPDXRef-Package-qtbase-qt-bundled-3rdparty-module-BundledZLIB
- › PackageDownloadLocation: <https://github.com/madler/zlib/releases/download/v1.3.1/zlib-1.3.1.tar.gz>
- › PackageVersion: 1.2.12
- › PackageSupplier: Organization: TheQtCompany
- › PackageLicenseConcluded: Zlib
- › ExternalRef: PACKAGE-MANAGER purl pkg:github/madler/zlib@v1.2.12
- › ExternalRef: PACKAGE-MANAGER purl pkg:github/qt/qtbase@ca10f27ef6e?library_name=BundledZLIB#src/3rdparty/zlib
- › PackageCopyrightText: <text>(C) 1995-2024 Jean-loup Gailly and Mark Adler</text>
- › PrimaryPackagePurpose: LIBRARY
- › PackageComment: <text>
 - › Name: Data Compression Library (zlib)
 - › Description: zlib is a general purpose data compression library.
 - › Qt usage: Optionally used in Qt Core and development tools. Configure with `-system-zlib` to avoid.
 - › Information extracted from:
 - › `/Users/alex/Dev/qt/worktrees/dev/qtbase/src/3rdparty/zlib/qt_attribution.json`
 - › Entry index: 0</text>
- › ExternalRef: SECURITY cpe23Type cpe:2.3:a:zlib:zlib:1.2.12:*:*:*:*:*:*
- › Relationship: SPDXRef-Package-qtbase-qt-bundled-3rdparty-module-BundledZLIB DEPENDS_ON SPDXRef-Package-qtbase-qt-module-PlatformModuleInternal
- › Relationship: SPDXRef-Package-qtbase CONTAINS SPDXRef-Package-qtbase-qt-bundled-3rdparty-module-BundledZLIB

```

10:00:59 build.go:404: Is this SBOM NTIA minimum element conformant? True
10:00:59 build.go:404: Individual elements | Status
-----|-----
10:00:59 build.go:404: All component names provided? | True
10:00:59 build.go:404: All component versions provided? | True
10:00:59 build.go:404: All component identifiers provided? | True
10:00:59 build.go:404: All component suppliers provided? | True
10:00:59 build.go:404: SBOM author name provided? | True
10:00:59 build.go:404: SBOM creation timestamp provided? | True
10:00:59 build.go:404: Dependency relationships provided? | True
10:00:59 build.go:404: -- Showing main SBOM document info: /home/qt/work/install/sbom/qtbase-6.9.0.spdx

```

SBOM Summary

Item	Details
SBOM File	/home/qt/work/install/sbom/qtbase-6.9.0.spdx
SBOM Type	spdx
Version	SPDX-2.3
Name	qtbase-6.9.0
Creator	Organization:TheQtCompany
Creator	Tool:Qt Build System
Created	2024-09-03T09:57:34Z
Files	75
Packages	158
Relationships	587
Services	0
Vulnerabilities	0

File Summary

Name	Type	License	Copyright
./libexec/syncqt	BINARY	LicenseRef-Qt-Commercial OR GPL-3.0-only WITH Qt-GPL-exception-1.0	Copyright (C) 2024 The Qt Company Ltd.
./libexec/moc	BINARY	LicenseRef-Qt-Commercial OR GPL-3.0-only WITH Qt-GPL-exception-1.0	Copyright (C) 2013 Olivier Goffart <ogoffart@woboq.com>
./libexec/rcc	BINARY	LicenseRef-Qt-Commercial OR GPL-3.0-only WITH Qt-GPL-exception-1.0	Copyright (C) 2024 The Qt Company Ltd.
./libexec/tracepointgen	BINARY	LicenseRef-Qt-Commercial OR GPL-3.0-only WITH Qt-GPL-exception-1.0	Copyright (C) 2024 The Qt Company Ltd.
./libexec/tracegen	BINARY	LicenseRef-Qt-Commercial OR GPL-3.0-only WITH Qt-GPL-exception-1.0	Copyright (C) 2024 The Qt Company Ltd.
./libexec/cmake_automoc_parser	BINARY	LicenseRef-Qt-Commercial OR GPL-3.0-only WITH Qt-GPL-exception-1.0	Copyright (C) 2024 The Qt Company Ltd.
./lib/libQt6Core.so.6.9.0	BINARY	LicenseRef-Qt-Commercial OR LGPL-3.0-only OR GPL-2.0-only OR GPL-3.0-only	Copyright (C) 2024 The Qt Company Ltd.
./lib/libQt6BundledLibpng.a	BINARY	Libpng AND libpng-2.0	Copyright (c) 1995-2024 The PNG Reference Library Authors
./lib/libQt6BundledLibjpeg.a	BINARY	IJG AND BSD-3-Clause	Copyright (C) 2009-2024 D. R. Commander
./lib/libQt6Concurrent.so.6.9.0	BINARY	LicenseRef-Qt-Commercial OR LGPL-3.0-only OR GPL-2.0-only OR GPL-3.0-only	Copyright (C) 2024 The Qt Company Ltd.
./lib/libQt6Sql.so.6.9.0	BINARY	LicenseRef-Qt-Commercial OR LGPL-3.0-only OR GPL-2.0-only OR GPL-3.0-only	Copyright (C) 2024 The Qt Company Ltd.
./lib/libQt6Network.so.6.9.0	BINARY	LicenseRef-Qt-Commercial OR LGPL-3.0-only OR GPL-2.0-only OR GPL-3.0-only	Copyright (C) 2024 The Qt Company Ltd.
./lib/libQt6Xml.so.6.9.0	BINARY	LicenseRef-Qt-Commercial OR LGPL-3.0-only OR GPL-2.0-only OR GPL-3.0-only	Copyright (C) 2024 The Qt Company Ltd.
./lib/libQt6DBus.so.6.9.0	BINARY	LicenseRef-Qt-Commercial OR LGPL-3.0-only	Copyright (C) 2024 The Qt Company Ltd.



Component Type Summary

Type	Count
APPLICATION	16
LIBRARY	142

License Summary

License	Count
AFL-2.1 OR GPL-2.0-or-later	1
Apache-2.0 OR MIT	1
BSD-2-Clause	3
BSD-2-Clause AND Imlib2	1
BSD-3-Clause	5
BSD-4-Clause	1
BSL-1.0	1
CC0-1.0	4
CC0-1.0 OR Apache-2.0	1
FTL OR GPL-2.0-only	1
GPL-2.0-only WITH Linux-syscall-note	1
IJG AND BSD-3-Clause	5
LGPL-2.1-or-later	1
Libpng AND libpng-2.0	3
LicenseRef-BSD-3-Clause-with-PCRE2-Binary-Like-Packages-Exception	2
LicenseRef-ICC-License	1
LicenseRef-Qt-Commercial OR GPL-3.0-only WITH Qt-GPL-exception-1.0	30
LicenseRef-Qt-Commercial OR LGPL-3.0-only OR GPL-2.0-only OR GPL-3.0-only	126
LicenseRef-SHA1-Public-Domain	1
MIT	12
MPL-2.0	1
NOASSERTION	27
Unicode-3.0	2
X11 AND HPND	1
blessing	1

Supplier Summary

Supplier	Count
Anonymous	27
TheQtCompany	131

NTIA Summary

Element	Status
All file information provided?	True
All package information provided?	True
Creator identified?	True
Creation time identified?	True
Dependency relationships provided?	True

Source SBOM



REUSE
SOFTWARE

Source SBOM via REUSE software

> REUSE Software

- > <https://reuse.software/>
- > Maintained by FSFE
- > Spec for annotating source files with license and copyright info
- > Either as comment headers or external REUSE.toml file
- > Latest version v3.2
- > Provides tool to lint and generate source SBOM
- > Qt REUSE-ification PoC in progress

> Why?

- > Complements Build SBOM nicely by cross-referencing source files that were used for the build, for license and copyright info

fsfe/reuse-tool

reuse is a tool for compliance with the REUSE recommendations.



111

Contributors

589

Used by

380

Stars

144

Forks



REUSE.toml sample

- › src/corelib/kernel/qiterable.h
 - › // Copyright (C) 2020 The Qt Company Ltd.
 - › // SPDX-License-Identifier: LicenseRef-Qt-Commercial OR LGPL-3.0-only OR GPL-2.0-only OR GPL-3.0-only
- › src/3rdparty/zlib/REUSE.toml
 - › version = 1
 - › [[annotations]]
 - › path = ["**"]
 - › precedence = "closest"
 - › SPDX-FileCopyrightText = ["(C) 1995-2024 Jean-loup Gailly and Mark Adler"]
 - › SPDX-License-Identifier = "Zlib"

Source SBOM generated by REUSE tool

- > SPDXVersion: SPDX-2.1
- > DataLicense: CCO-1.0
- > SPDXID: SPDXRef-DOCUMENT
- > DocumentName: qtbase
- > DocumentNamespace: <http://spdx.org/spdxdocs/spdx-v2.1-63fc9b58-9724-4dc0-b7c0-9ab404c9c715>
- > Creator: Person: Anonymous ()
- > Creator: Organization: Anonymous ()
- > Creator: Tool: reuse-4.0.3
- > Created: 2024-09-04T09:36:30Z
- > CreatorComment: <text>This document was created automatically using available reuse information consistent with REUSE.</text>
- > Relationship: SPDXRef-DOCUMENT DESCRIBES SPDXRef-fbd0885568e50f6a4ff28e2473e0b11e
- >
- > FileName: ./src/corelib/kernel/qiterable.h
- > SPDXID: SPDXRef-1aa25c082a262d7b8bc81283c3163bef
- > FileChecksum: SHA1: c89f41cad97974e2644cbdfddf6bf4fb7fef0337
- > LicenseConcluded: NOASSERTION
- > LicenseInfoInFile: GPL-2.0-only
- > LicenseInfoInFile: GPL-3.0-only
- > LicenseInfoInFile: LGPL-3.0-only
- > LicenseInfoInFile: LicenseRef-Qt-Commercial
- > FileCopyrightText: <text>Copyright (C) 2020 The Qt Company Ltd.</text>



REUSE lint

- › -- Running 'reuse lint' in '/Users/alex/Dev/qt/worktrees/dev/qtbase'.
- › # SUMMARY
- › * Bad licenses: 0
- › * Deprecated licenses: 0
- › * Licenses without file extension: 0
- › * Missing licenses: 0
- › * Unused licenses: 0
- › * Used licenses: MPL-2.0, BSD-4-Clause, Unicode-3.0, GPL-2.0-or-later, libpng-2.0, GPL-3.0-only, Bitstream-Vera, GPL-2.0-only, MIT, MIT-open-group, SPL-1.0, Apache-2.0, Qt-GPL-exception-1.0, blessing, AFL-2.1, LicenseRef-BSD-3-Clause-with-PCRE2-Binary-Like-Packages-Exception, BSL-1.0, Imlib2, BSD-3-Clause, HPND, IJG, X11, LicenseRef-ICC-License, GFDL-1.3-no-invariants-only, Zlib, Libpng, LicenseRef-Lcs-Telegraphics, BSD-2-Clause, MIT-Khronos-old, LicenseRef-SHA1-Public-Domain, LGPL-3.0-only, FTL, Linux-syscall-note, CCO-1.0, IPL-1.0, LicenseRef-Qt-Commercial, Xerox
- › * Read errors: 0
- › * Files with copyright information: 22197 / 22197
- › * Files with license information: 22197 / 22197
- › Congratulations! Your project is compliant with version 3.2 of the REUSE Specification :-)

What Qt maintainers need to know

What Qt maintainers need to know

- › https://wiki.qt.io/SBOM#For_Maintainers
- › Annotate modules with correct license
- › Annotate usage of 3rd party sources
- › Keep qt_attribution.json CPE / PURL up-to-date



Module licensing

- › Default module license is "*LicenseRef-Qt-Commercial OR LGPL-3.0-only OR GPL-2.0-only OR GPL-3.0*"
- › Modify module CMakeLists.txt to customize the license
 - › *# inside src/CMakeLists.txt*
 - › `set(QT_SBOM_DEFAULT_QT_LICENSE_ID_LIBRARIES "QT_COMMERCIAL_OR_GPL3")`
 - › `set(QT_SBOM_DEFAULT_QT_LICENSE_ID_EXECUTABLES "QT_COMMERCIAL_OR_GPL3")`

3rd party usage annotation

- > `qt_internal_extend_target(Network`
- > `CONDITION`
- > `NOT QT_FEATURE_system_zlib`
- > `INCLUDE_DIRECTORIES`
- > `../3rdparty/zlib/src`
- > `ATtribution_FILE_DIR_PATHS`
- > `../3rdparty/zlib`
- > `../3rdparty/openssl)`

qt_attribution.json CPE / PURL

- › "PURL": "pkg:github/PCRE2Project/pcre2@pcre2-10.44",
- › "CPE": "cpe:2.3:a:pcre:pcre2:10.44:*:*:*:*:*:*:*",

- › "PURL": "pkg:generic/xcb-xinput?download_url=http://xcb.freedesktop.org/",

- › "PURL": "pkg:github/apache/tika@5ea8bbf1644a593ed22ee5c7608ba33aff949d5d#tika-core/src/main/resources/org/apache/tika/mime/tika-mimetypes.xml",
- › "CPE": "cpe:2.3:a:apache:tika:*:*:*:*:*:*:*",

Tools

Tools

> SOOS

- > <https://soos.io/>
- > Commercial, paid



> Dependency Track

- > <https://github.com/DependencyTrack/dependency-track>
- > Open Source, free



> Intel cve-bin-tool

- > <https://github.com/intel/cve-bin-tool>
- > Open Source, free

intel/**cve-bin-tool**

VULNERABILITIES 0 0% change

PACKAGE NAME VIOLATIONS 0 0% change

KNOWN / UNKNOWN PACKAGES 7 / 21 75% increase / 80% decrease

DIRECT / TRANSITIVE UPDATES 1 / 0 0% change / 0% change

- Search Packages
qtbase-04f1e432a51+dev+dirty
blake2/blake2@54f4faa4c16ea34bcd59d16e8da46...
briangladman/sha@4b9e13ead2c5b5e41ca27c65d...
freetype/freetype@ver-2-13-3
google/double-conversion@v3.3.0
gpuopen-librariesandsdks/vulkanmemoryallocator@v3.1.0
harfbuzz/harfbuzz@8.5.0
intel/tinybcr@v0.6.0
libjpeg-turbo/libjpeg-turbo@3.0.3
madler/zlib@v1.3.1
mity/md4c@release-0.5.2
pcre2project/pcre2@pcre2-10.44
pnggroup/libpng@v1.6.43
qt/qtbase@04f1e432a51

intel/tinybcr@v0.6.0 Research

Primary Language QMake First Published 3 years ago Version Published 3 years ago Last Push 21 days ago 187 Forks

4 Branches 1.47 MB Repository Size 483 Stargazers

1 Referenced Version

intel/tinybcr@v0.6.0 Published 3 years ago

Introduced By

qtbase-04f1e432a51+dev+dirty
intel/tinybcr@v0.6.0

MIT License Free OSI Approved Research

Usage Describes how software may be used under this license.

Commercial Use Allowed Patent Use

Options Describes the options that may be specified for software under this license.

Liability Prohibited Place Warranty

- intel/tinyccbor@v0.6.0
- libjpeg-turbo/libjpeg-turbo@3.0.3
- madler/zlib@v1.3.1
- mity/md4c@release-0.5.2
- pcr2project/pcr2@pcr2-10.44
- pnggroup/libpng@v1.6.43
- qt/qtbase@04f1e432a51
- rockdaboot/libpsl@664f3dc85259ec65e30248a61f...
- sqlite/sqlite@version-3.46.1
- veorq/siphash@adcbf09b1684a718f594faa650ffc5...
- appleclang@15.0.0.15000309
- cscha1
- cups@unknown
- gssapi@unknown
- icc-srgb-color-profile
- psl-data@903a83ff7bfc3148e3692e09396f9f3bdc9462...
- sha3_keccak@3.2
- theqtcompany/qtbase@04f1e432a51+dev+dirty
- wrapatomic@unknown
- wrapbacktrace@unknown
- wrapresolv@unknown

qtbase-04f1e432a51+dev+dirty



intel/tinyccbor@v0.6.0

MIT License
✓ Free
 OSI Approved
 Research

Usage

Describes how software may be used under this license.

- ✓ **Commercial Use** ⓘ
Allowed
- ✓ **Patent Use** ⓘ
Allowed
- ✓ **Private Use** ⓘ
Allowed
- ✓ **Distribution** ⓘ
Allowed
- ✓ **Modification** ⓘ
Allowed

Options

Describes the options that may be specified for software under this license.

- ! **Liability** ⓘ
Prohibited
- ! **Place Warranty** ⓘ
Prohibited
- ✓ **Sublicense** ⓘ
Allowed
- **Trademark Use** ⓘ
Not specified
- **Warranty Provided** ⓘ
Not specified

Requirements

Describes the requirements that must be exercised by using software under this license.

- ✓ **Disclose Source** ⓘ
Not required
- ! **License/Copyright** ⓘ
Required
- ✓ **Network Disclosure** ⓘ
Not required
- ✓ **Same License** ⓘ
Not required
- **Pay Threshold** ⓘ
Not specified
- ✓ **State Changes** ⓘ
Not required
- **Install Instructions** ⓘ
Not specified
- **Notice File** ⓘ
Not specified
- **Include Original** ⓘ
Not specified
- ! **Include Attribution** ⓘ
Required

 **3** ?

UNKNOWN / NON-SPDX LICENSES

 25% decrease

 **11** ?

ATTRIBUTE VIOLATIONS

 8% decrease

 **3** ?

LICENSE VIOLATIONS

→ 0% change

 **2** ?

UNIQUE LICENSES

→ 0% change



- 2 Licenses Discovered**
- MIT License (3)
 - BSD 3-Clause "New" or "Revised" License (1)**
 - Unknown / Non-SPDX Licenses (3) 

 **BSD 3-Clause "New" or "Revised" License** ✓ Free OSI Approved Research

Usage

Describes how software may be used under this license.

-  **Commercial Use** ?
Allowed
-  **Patent Use** ?
Not specified
-  **Private Use** ?
Allowed
-  **Distribution** ?
Allowed
-  **Modification** ?
Allowed

Options

Describes the options that may be specified for software under this license.

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Prohibited
-  **Place Warranty** ?
Not specified
-  **Sublicense** ?
Not specified
-  **Trademark Use** ?
Prohibited
-  **Warranty Provided** ?
Not specified

Requirements

Describes the requirements that must be exercised by using software under this license.

-  **Disclose Source** ?
Not required
-  **License/Copyright** ?
Required
-  **Network Disclosure** ?
-  **State Changes** ?
Not specified
-  **Install Instructions** ?
Not specified
-  **Notice File** ?



Issue Sort

Severity

**License Name Violation (Disallow MIT Test)** (gpuopen-librariesandsdks/vulkanmemoryallocator@v3.1.0) +

✦ First detected 7 minutes ago in qtbase-6.9.0.

**License Name Violation (Disallow MIT Test)** (intel/tinycbor@v0.6.0) +

✦ First detected 7 minutes ago in qtbase-6.9.0.

**License Name Violation (Disallow MIT Test)** (mity/md4c@release-0.5.2) +

✦ First detected 7 minutes ago in qtbase-6.9.0.



A **High** severity **Violation** was located in **mity/md4c**, which is referenced as **mity/md4c@release-0.5.2**

License Name policy (Disallow MIT Test) triggered. MIT license excluded.

Package References

qtbase-6.9.0

mity/md4c@release-0.5.2

References

<https://kb.soos.io/help/issues-violations>

Solution

Remove or replace the package causing this violation, or create an attestation.

[CREATE TICKET](#)**Missing/Unknown License Violation (Missing license)** (qt/qtbase@ca10f27ef6e) +

✦ First detected 7 minutes ago in qtbase-6.9.0.

**License Attribute Violation (Test)** (qt/qtbase@ca10f27ef6e) +

✦ First detected 7 minutes ago in qtbase-6.9.0.

**Missing/Unknown License Violation (Missing license)** (madler/zlib@v1.2.12) +

✦ First detected 7 minutes ago in qtbase-6.9.0.

**Missing/Unknown License Violation (Missing license)** (veorg/sinhash@adchf09b1684a718f594faa650ffc56bacdb0777) +

Governance



Project

All Policies



License Name



License Attribute



Missing License



Package



Package Installs



CVEs



OWASP Top 10



MITRE Top 25



Release Frequency



Contributors



Defects



Ratings

Name

Severity

Summary



BSD-Only



Allows **BSD-3-Clause**



Custom License Policy Test



Disallows packages which do not allow **Patents Exist, Source Modifications and Commercial Application**



Disallow MIT Test



Disallows **MIT, MIT-0**



Missing license



Identifies packages with **missing or unknown SPDX identifiers.**



No GPL



Disallows **GPL-3.0+, GPL-3.0-with-GCC-exception** and (17 more)



qbase 6.0.0

4 16 14 0 0

View Details >

Overview Components 177 Services 0 Dependency Graph 0 Audit Vulnerabilities 34 18 Exploit Predictions 18 Policy Violations 0 0 0 0

Apply VEX Export VEX Export VDR Reanalyze Show suppressed findings

Search [Refresh] [Menu]

	Component	Version	Group	Vulnerability	Severity	Analyzer	Attributed On	Analysis	Suppressed
>	Core	6.9.0		NVD CVE-2024-39936	Medium	NVD	29 Aug 2024	-	
>	Core	6.9.0		NVD CVE-2023-24607	High	NVD	29 Aug 2024	-	
>	Core	6.9.0		NVD CVE-2023-32573	Medium	NVD	29 Aug 2024	-	
>	Core	6.9.0		NVD CVE-2023-32762	Medium	NVD	29 Aug 2024	-	
>	Core	6.9.0		NVD CVE-2023-32763	High	NVD	29 Aug 2024	-	
>	Core	6.9.0		NVD CVE-2023-33285	Medium	NVD	29 Aug 2024	-	
>	Core	6.9.0		NVD CVE-2023-34410	Medium	NVD	29 Aug 2024	-	
>	Core	6.9.0		NVD CVE-2023-37369	High	NVD	29 Aug 2024	-	
>	Core	6.9.0		NVD CVE-2023-38197	High	NVD	29 Aug 2024	-	



qbase 6.0.0



View Details >

- Overview
- Components 177**
- Services 0
- Dependency Graph 0
- Audit Vulnerabilities 18 18
- Exploit Predictions 18
- Policy Violations 1 0 0 1

+ Add Component - Remove Component Upload BOM Download BOM
 Outdated only Direct only
 Search Refresh Filter

Component	Version	Group	Internal	License	Risk Score	Vulnerabilities
Core	6.9.0			LicenseRef-Qt-Commercial OR LGPL-3.0-only OR GPL-2.0-only OR GPL-3.0-only	71	8 7
BundledZLIB	1.2.12	⚠		Zlib	20	2
SQLiteDriverPlugin_Attribution_sqlite	3.46.1				0	0
FreetypePrivate	2.13.3				0	0
FreetypePrivate_Attribution_freetype-pcf	2.13.3				0	0
FreetypePrivate_Attribution_freetype-bdf	2.13.3				0	0
FreetypePrivate_Attribution_freetype-zlib	2.13.3				0	0
BundledFreetype	2.13.3				0	0

```

13:25] INFO cve_bin_tool.CVEScanner - 2 CVE(s) in zlib.zlib version 1.2.12
13:25:18] INFO cve_bin_tool - Overall CVE summary:
INFO cve_bin_tool - There are 1 products with known CVEs detected
INFO cve_bin_tool - Known CVEs in ('zlib.zlib', '1.2.12'):

```

intel/cve-bin-tool

cve_sca

CVE BINARY TOOL version: 3.4rc1

- Report Generated: 2024-09-03 13:05:18
- Time of last update of CVE Data: 2024-09-02 17:02:59

CVE SUMMARY

Severity	Count
CRITICAL	2
HIGH	0
MEDIUM	0
LOW	0
UNKNOWN	0

CPE SUMMARY

Vendor	Product	Version	Latest Upstream Stable Version	CRITICAL CVEs Count	HIGH CVEs Count	MEDIUM CVEs Count	LOW CVEs Count	UNKNOWN CVEs Count	TOTAL CVEs Count
zlib	zlib	1.2.12	1.3.1	2	0	0	0	0	2

NewFound CVEs

Vendor	Product	Version	CVE Number	Source	Severity	Score (CVSS Version)
zlib	zlib	1.2.12	CVE-2022-37434	NVD	CRITICAL	9.8 (v3)
zlib	zlib	1.2.12	CVE-2023-45853	NVD	CRITICAL	9.8 (v3)

Vendor	Product	Version	Root	Filename
zlib	zlib	1.2.12		

Products with No Identified Vulnerabilities

Vendor	Product	Version
qt	qt	6.9.0
TheQtCompany	qtbase	ca10f27ef6e+dev+dirty
qt	qtbase	ca10f27ef6e
TheQtCompany	qtbase-globalconfig	ca10f27ef6e
qt	qtbase	6.9.0
TheQtCompany	qtbase-globalconfigprivate	ca10f27ef6e

Ongoing and future work

Future work

- › Finalize Qt Source SBOM <- ongoing
- › Build SBOM
 - › Qt WebEngine
 - › Tools (e.g. Qt Creator)
 - › qttranslations <- ongoing
- › SBOM creation for User projects – Very rough PoC available
- › Look into SBOM tooling
 - › Dependency and Vulnerability Monitoring
 - › Reporting

Thanks

@alcroito on #qt-cmake @ irc.libera.chat (bridged to kde.org matrix server)



Qt